8EHQ-0702-14381

July 10, 2002
Certified Mail – Return Receipt Requested

Richard H. Hefter, Chief
High Production Volume Chemicals Branch
Document Control Office (7407M)
EPA East – Room 6428 Attn: Section 8(e)
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, DC 20460-0001

MR
60474

Reference: 8EHQ-1201-14381

Dear Mr. Hefter:

Pursuant to a July 2, 2002 conference call between U.S. EPA's Ms. Myra Karstadt and Mr. Harry Lewis and [redacted] attached is a resubmitted copy of the product material safety data sheet and precautionary label for [redacted] A confidential as well as sanitized copy of each is also attached. The attachments being submitted herein are intended to replace the similar attachments submitted to you via letter dated March 13, 2002. The entire March 13, 2002 submission should be replaced by this submission and discarded.

If you have any questions, please call me at [redacted]

Sincerely,

[redacted]

Attachments

Cc: Ms. Myra Karstadt
U.S. EPA Mail Stop 7403M
OPPT/RAD/SSB
1200 Pennsylvania Avenue, NW
Washington, DC 20460

Harry Lewis, Esq.
U.S. Environmental Protection Agency
OPPT/IMD Mail Code 7407M
Room 6120B
1200 Pennsylvania Avenue, NW
Washington, DC 20460

COMPANY SANITIZED

8EHQ-99-14381
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[redacted]

[ ]

Material Safety Data Sheet [ ]

1	Chemical Product and Company Identification

[ ]

The chemical identity of this substance and its code name/number is confidential business information. Do not release this MSDS to non-Corporate personnel. Requests for MSDSs from the public, including those made under the provisions of the Superfund Amendment and Reauthorization Act (SARA) should be referred to the Product Safety Department.

Product Trade Name [ ]

CAS Number Unknown.

Synonyms None.

Generic Chemical Name Long chain alkenyl amide borate

Product Type Not applicable.

Preparation/Revision Date 02 July 2002

Transportation Emergency Phone No. (CHEMTREC) 1-800-424-9300. Outside the U.S. (703) 527-3887

MSDS No. [ ]

2	Composition/Information on Ingredients

Hazardous Ingredients

Comp	CAS No.	Percentage (by wt.)	Exposure Guidelines						Carcinogen
			OSHA		ACGIH		Other		
			TWA	STEL	TWA	STEL	TWA	STEL	
Long chain alkenyl amide borate	Confidential.	From 90 to 100 percent	N/E	N/E	N/E	N/E	N/E	N/E	N/E
Diethanolamine	111-42-2	1.6%	3 ppm	N/E	0.46 ppm (s)	N/E	N/E	N/E	N/E

(s) - Skin exposure
(p) - Proposed limit
(c) - Ceiling exposure
(l) - Recommended exposure limit
(u) - Supplier recommended exposure limit
(N/E) - None established

3 Hazards Identification

Principal Hazards

CAUTION.

- **MAY CAUSE SKIN IRRITATION.**
- **MAY CAUSE RESPIRATORY TRACT IRRITATION.**
- **MAY CAUSE CHRONIC HEALTH EFFECTS.**

See Section 11 for complete health hazard information.

4 First Aid Measures

Oral	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
Eyes	Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Skin	Wash with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation persists. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.
Inhalation	Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.
Additional Information	Note to physician: Treat symptomatically.

5 Fire Fighting Measures

Flash Point	> 210 Deg C, 410 Deg F PMCC (Typical)
Extinguishing Media	CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures	Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water.
Unusual Fire & Explosion Hazards	Toxic fumes, gases or vapors may evolve on burning.

6 Accidental Release Measures

Spill Procedures

Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

7 Handling and Storage

Maximum Pumping Temperature	Not determined.
Maximum Handling Temperature	70 Deg C, 158 Deg F
Handling Procedures	Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
Maximum Storage Temperature	45 Deg C, 113 Deg F
Storage Procedures	No special storage precautions required.
Loading Temperature	70 Deg C, 158 Deg F

8 Exposure Controls/Personal Protection

Ventilation Procedures	Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
Gloves Procedures	Use nitrile or neoprene gloves.
Eye Protection	Safety Glasses.
Respiratory Protection	Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Clothing Recommendation	Long sleeve shirt is recommended. Use nitrile rubber boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

9 Physical and Chemical Properties

Flash Point	> 210 Deg C, 410 Deg F PMCC (Typical)
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	Not determined.
Explosion Data	Material does not have explosive properties.
Vapor Pressure	Not determined.
pH	Not determined.
Specific Gravity	0.99 (15.6 Deg C)
Water Solubility	Insoluble.
Percent Volatile	Unknown.
Percent VOC	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Not Determined
Appearance	Dark colored liquid.

Viscosity	1300 Centistokes (40 Deg C) 55 Centistokes (100 Deg C)
Odor Threshold	Unknown.
Boiling Point	Not determined.
Pour Point Temperature	Not determined.
Freezing Point	Not determined.

The above data are typical values and do not constitute a specification.

10 Stability and Reactivity

Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	None known, avoid contact with reactive chemicals.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: boron, nitrogen.

11 Toxicological Information

-- ACUTE EXPOSURE--

Oral Toxicity	The LD50 in rats is > 5000 mg/Kg. Based on actual data. Swallowing this material causes irritation of mouth, esophagus and stomach, with nausea, vomiting, diarrhea and abdominal pain.
Eye Irritation	Not expected to cause eye irritation. Based on actual data.
Skin Irritation	May cause skin irritation. Based on actual data. Prolonged or repeated contact may cause dermatitis.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/kg. Based on actual data.
Inhalation Toxicity	No data available to indicate product or components may be a toxic inhalation hazard.
Respiratory Irritation	May cause nose, throat and lung irritation. Based on data from components or similar materials.
Dermal Sensitization	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE--

Chronic Toxicity	Repeated overexposure to alkanolamines may cause liver and kidney damage. Ingestion of diethanolamine has produced nervous system injury in dogs and rats. In addition, heart lesions have been observed in treated mice.
Carcinogenicity	This product contains greater than or equal to 1% diethanolamine. The National

	Toxicology Program recently completed studies which indicate that dermally-applied diethanolamine may have carcinogenic activity in laboratory animals. There are a number of scientific issues that raise questions about the validity and relevance of these studies. Research is expected to continue on these issues.
Mutagenicity	Results of laboratory tests for this material or its predominant component have not demonstrated any significant potential to induce genetic damage.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

-- ADDITIONAL INFORMATION--

Other	No other health hazards known.
Exposure Limits	See Hazardous Ingredients Section for any applicable exposure limits for components.

12 Ecological Information

-- ENVIRONMENTAL TOXICITY--

Freshwater Fish Toxicity	The acute LC50 for freshwater fish is > 1000 ppm.
Freshwater Invertebrates Toxicity	The acute EC50 for freshwater invertebrates is > 100 ppm. Chronic effects for freshwater invertebrates expected at 10 - 100 ppm
Algal Inhibition	The acute EC50 for algae is 10 - 100 ppm.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	The acute EC50 for bacteria is > 1000 ppm.
Miscellaneous Toxicity	Chronic effects for soil organisms expected at > 100 ppm.

-- ENVIRONMENTAL FATE--

Biodegradation	Laboratory studies indicate potential biodegradation with non-acclimated sludge.
Bioaccumulation	This material potentially bioconcentrates, based on octanol/water coefficients.
Soil Mobility	Not determined.

13 Disposal Consideration

Waste Disposal	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.

14 Transport Information

ICAO/IATA	Not regulated.
IMDG (Ambient)	Not regulated.
IMDG (Elevated)	Not regulated.
IMDG EMS	Not applicable.
IMDG MFAG	Not applicable.
IMO Marine Bulk	DO NOT TRANSPORT - ADDITIONAL INFORMATION REQUIRED
USCG Compatibility	Not determined.
U.S. DOT Bulk (Ambient)	Environmentally hazardous substance liquid, n.o.s. (Diethanolamine), Class 9, UN3082, PG III, RQ
U.S. DOT Bulk (Elevated)	Environmentally hazardous substance liquid, n.o.s. (Diethanolamine), Class 9, UN3082, PG III, RQ
U.S. DOT Non-Bulk	Not regulated.
DOT NAERG	171
TDG Bulk (Ambient)	Not regulated.
TDG Bulk (Elevated)	Not regulated.
TDG Non-Bulk	Not regulated.
Mexico	Not regulated.
ADR/RID (Ambient)	Not regulated.
ADR/RID (Elevated)	Not regulated.
ADG (Ambient)	Not regulated.
ADG (Elevated)	Not regulated.

15 Regulatory Information

U.S. TSCA Inventory	All components of this material are on the US TSCA Inventory.
Other TSCA Reg.	None known.
SARA Ext. Haz. Subst.	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.
SARA Section 313	1.6% Diethanolamine, CAS no. 111-42-2
TDG Regulated Limit.	None known.
CERCLA Hazardous Substances	

Transit Reportable Quantities

Component	Reportable Quantity RQ	Units	Reportable Quantity RQ	Units
Diethanolamine	766	gal.	2897	liters

Stationary Reportable Quantities

Component	Reportable Quantity RQ	Units	Reportable Quantity RQ	Units
Diethanolamine	766	gal.	2897	liters

Cal. Prop. 65 This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, [ ] does not

	routinely analyze its products for impurities which may be such chemicals.
U.S. Fuel Registration	Not applicable.
U.S. Dept of Agriculture	This product has not been filed with the USDA to support H2 approvals.
NSF Nonfood Compounds Registration	This product has not been filed with the NSF to support H1 or H2 approvals.
U.S. Tariff Heading Number	3811.29.00.00
Schedule B Number	Not determined.
FDA Approval	Not applicable.
EEC EINECS	All components comply with the EU 7th Amendment and are approved for EU sales. [ ] must maintain records of all imports of this product into the EU. Third party importers are asked to report every import to [ ]
Finnish Registration Number	Not Registered
Sweden Registration Number	Not Registered
Norway Registration Number	Not Registered
Danish Registration Number	Not Registered
Switzerland Bag T Registration Number	611484
Japan METI	This product requires notification in Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
Switzerland	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Korea	All components are in compliance in Korea.
Korean Registration Number	Not Registered
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
China Registration Number	Not Registered
New Zealand Registration Number	Not Registered
Malta Registration Number	Not Registered
Ukraine Registration Number	Not Registered

16	Other Information

US NFPA Codes

Health	Fire	Reactivity	Special
2	1	0	N/E

HMIS Codes

Health	Fire	Reactivity
2 *	1	0

Precautionary Labels

CAUTION.

- **MAY CAUSE SKIN IRRITATION.**
- **MAY CAUSE RESPIRATORY TRACT IRRITATION.**
- **MAY CAUSE CHRONIC HEALTH EFFECTS.**

Revision Indicators

This MSDS has no revisions since 02 July 2002

[ ]

SEE MSDS FOR FURTHER DETAILS.

CONTAINS: Long chain alkenyl amide borate (NJ RTK# 800967-5542 P); Diethanolamine (CAS no. 111-42-2).

- **MAY CAUSE SKIN IRRITATION.**
- **MAY CAUSE RESPIRATORY TRACT IRRITATION.**
- **MAY CAUSE CHRONIC HEALTH EFFECTS.**

TARGET ORGANS:
HEART, KIDNEY, LIVER, NERVOUS SYSTEM

USE ONLY WITH ADEQUATE VENTILATION.
KEEP CONTAINER CLOSED WHEN NOT IN USE.
WASH THOROUGHLY AFTER HANDLING.
AVOID BREATHING DUST, VAPOR, MIST, OR GAS.
AVOID CONTACT WITH SKIN AND CLOTHING.
AVOID CONTACT WITH EYES.

FIRST AID

SKIN	WASH WITH SOAP AND WATER. IMMEDIATELY REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE AND DISCARD SHOES AND OTHER LEATHER ARTICLES SATURATED WITH THE MATERIAL.
EYE	FLUSH WITH WATER AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF EYE IRRITATION DEVELOPS OR PERSISTS.
INHALATION	REMOVE EXPOSED PERSON TO FRESH AIR IF ADVERSE EFFECTS ARE OBSERVED. IF BREATHING IS LABORED, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, APPLY ARTIFICAL RESPIRATION. IF IRRITATION PERSISTS OR IF TOXIC SYMPTOMS ARE OBSERVED, GET MEDICAL ATTENTION.
ORAL	DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE 2 GLASSES OF WATER. GET IMMEDIATE MEDICAL ATTENTION.

FIRE	CO2, DRY CHEMICAL, OR FOAM. WATER CAN BE USED TO COOL AND PROTECT EXPOSED MATERIAL.
SPILL	PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN. SEE MSDS FOR PPE RECOMMENDATIONS. VENTILATE AREA IF SPILLED IN CONFINED SPACE OR OTHER POORLY VENTILATED AREAS. PREVENT ENTRY INTO SEWERS AND WATERWAYS. PICK UP FREE LIQUID FOR RECYCLE

[ ]

AND/ OR DISPOSAL. RESIDUAL LIQUID CAN BE ABSORBED ON INERT MATERIAL. CHECK MSDS FOR CERCLA INFORMATION TO DETERMINE SPILL REPORTING REQUIREMENTS.

IN CASE OF CHEMICAL EMERGENCY -- SPILL, LEAK, FIRE, EXPOSURE AND ACCIDENT -- CALL CHEMTREC DAY OR NIGHT **800-424-9300**